GLOBAL TRADING ANALYTICS, LLC

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ForeignExch Types Net Cost (bp) Summary

Fore	eignExch Types	Q3 '05	Q4 '05	Q1 '06	Q2 '06	Q3 '06	Q4 '06	Q1 '07	Q2 '07	Q3 '07	Q4 '07	Q1 '08	Q2 '08	Q3 '08	Q4 '08	Q1 '09	Q2 '09
TREA	SURY INTERNAL	-26.41	-9.43	-8.44	-30.73	-11.79	-17.07	-10.32	-15.01	-18.99	-19.99	-25.14	-20.86	-22.13	-34.22	-39	-38.98
EXTE	NAL CONTRACT	-2.82	3.83	1.22	-1.34	-2.16	-1.48	-0.27	-1.17	-1.62	-3.03	-5.5	-5.98	-0.5	-0.79	5.59	-3.75
TREA	SURY EXTERNAL																
	CONTRACT	-4.83	-6.6	-5.53	-3.2	-2.64	-3.39	-4.04	-1.48	-5.01	-2.54	-3.9	-5.53	-6.44	7.87	-11.18	-4.34
INTE	NAL CONTRACT	-7.47	-11.48	-15.08	-18.22	-11.15	-11.26	-3.84	-6.48	-12.06	-5.42	-24.48	-15.76	-2.69	-15.68	-0.04	-45.78
LON	ON CONTRACT	-9.69	-14.06	-13.81	-6.01	-5.7	-6.81	-4.28	-6.07	-4.17	2.1	3.22	-5.81	-3.46	1.81	-10.63	-8.49
LON	OON TREASURY	-192.18						7.79			-16.72	-6.64	-16.8	-17.18		-7.75	-64.75
	С				-41.79				59.94								

ForeignExch Type (TREASURY INTERNAL CONTRACT) Results

	Q3 '05	Q4 '05	Q1 '06	Q2 '06	Q3 '06	Q4 '06	Q1 '07	Q2 '07	Q3 '07	Q4 '07	Q1 '08	Q2 '08	Q3 '08	Q4 '08	Q1 '09	Q2 '09
Market Impact (bp)	-24.73	-9.64	-7.66	-29.37	-11.94	-16.61	-10.05	-14.69	-18.96	-20.19	-24.42	-21.14	-20.96	-33.26	-37.83	-38.46
Inst'l Peer Universe Mkt																
Impact (bp)	1.68	-0.2	0.79	1.36	-0.15	0.46	0.27	0.32	0.04	-0.21	0.73	-0.28	1.17	0.95	1.17	0.51
Net Cost/Benefit (bp)	-26.41	-9.43	-8.44	-30.73	-11.79	-17.07	-10.32	-15.01	-18.99	-19.99	-25.14	-20.86	-22.13	-34.22	- 3 9	-38.98
Total Cost/Benefit (000's)	(\$831)	(\$86)	(\$98)	(\$549)	(\$145)	(\$112)	(\$134)	(\$261)	(\$412)	(\$1,178)	(\$1,086)	(\$2,152)	(\$1,987)	(\$2,714)	(\$2,316)	(\$4,393)
RPM Universe Ranking	5%	39%	36%	18%	31%	26%	31%	22%	26%	21%	21%	25%	25%	26%	21%	19%
Quartile Ranking	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Universe Volatility	0.19%	0.13%	0.16%	0.15%	0.12%	0.10%	0.13%	0.08%	0.18%	0.15%	0.23%	0.23%	0.29%	0.55%	0.42%	0.35%
Universe Market Differential	0.05%	0.03%	0.04%	0.05%	0.04%	0.03%	0.14%	0.03%	0.06%	0.05%	0.05%	0.07%	0.08%	0.16%	0.11%	0.09%
Universe Liquidity Factor	69%	81%	77%	73%	74%	73%	66%	77%	74%	70%	85%	82%	80%	83%	86%	88%
Cost/Benefit Contribution																
Factor	-67.43%	-26.21%	-24.96%	-52.18%	-26.53%	-21.34%	-31.94%	-43.71%	-42.19%	-67.05%	-45.56%	-52.63%	-76.25%	-94.07%	-78.90%	-84.04%
Principal Traded (000's)	\$314,818	\$91,117	\$116,343	\$178,704	\$123,099	\$65,568	\$130,068	\$173,544	\$217,048	\$589,250	\$431,715	\$1,031,504	\$897,843	\$793,189	\$593,782	\$1,126,935
Number Trades	271	455	317	629	530	459	382	638	549	1,576	1,533	2,299	2,130	2,329	1,956	2,919

Annual Vol \$483,714 Annual Vol \$1,109,910 Annual Vol \$3,154,251

Q3 '09	Q4 '09	Q1 '10	Rolling 19 Quarters	GTA Factor	Univ Volatility	Univ Market Diff	Univ Liqdty Factor	Cost/ Benefit Contrib.	Total Cost/ Benefit (000's)	Principal Traded (000's)	Num. Trades
-29.35	-28.53	-22.83	-27.11	14.36	0.22%	0.07%	79%	-71.29%	(\$26,225)	\$9,675,162	25,405
-1.36	-2.48	-6.78	-1.94	44.55	0.22%	0.04%	89%	-10.91%	(\$4,012)	\$20,715,958	17,225
-0.99	-4.71	-4.77	-3.56	45.27	0.21%	0.05%	89%	-9.47%	(\$3,483)	\$9,790,821	13,193
-48.82	-28.51	-41.48	-13.33	46.7	0.21%	0.09%	17%	-6.59%	(\$2,425)	\$1,818,552	2,524
-7.18	-10.6	-4.2	-4.49	49.18	0.23%	0.07%	74%	-1.64%	(\$603)	\$1,342,475	2,468
29.32	-30		-30.96	49.96	0.33%	0.09%	90%	-0.09%	(\$32)	\$10,250	214
			-30.38	49.99	0.18%	0.07%	52%	-0.02%	(\$7)	\$2,247	2

(\$36,787) \$43,355,465 \$61,031

-0.0008485

Q3 '09	Q4 '09	Q1 '10	Rolling 19			
Q3 09	Q4 09	QI IU	Quarters			
-28.81	-28.18	-22.05	-26.55			
0.54	0.35	0.79	0.56			
-29.35	-28.53	-22.83	-27.11			
(\$3,749)	(\$2,726)	(\$1,296)	(\$26,225)			
18%	18%	27%	22%			
4	4	4	4			
0.24%	0.26%	0.21%	0.22%			
0.07%	0.06%	0.05%	0.07%			
86%	86%	85%	79%			
-88.17%	-80.22%	-44.55%	-71.29%			
\$1,277,264	\$955,579	\$567,793	\$9,675,162			
2,477	2,271	1,685	25,405			

Annual Vol \$3,953,560

Annual Cost (\$13,184) Annual BPs (33.35)

Q3 '09	Q4 '09	Q1 '10	Rolling 19 Quarters
-28.81	-28.18	-22.05	-26.55
-1.36	-2.48	-6.78	-1.94
-0.99	-4.71	-4.77	-3.56

24.61	15.27	25.70	27.45
(\$23,810.57)	(\$867.02)	(\$2,455.84)	(\$3,506.09)
22.99	17.28	23.47	27.82

(\$3,553.35) (\$2,242.74) (\$981.15) **(\$22,243.20**)

 Annual Cost
 (\$904)
 Annual Cost
 (\$1,985)
 Annual Cost
 (\$7,939)

 Annual BPs
 (18.69)
 Annual BPs
 (17.88)
 Annual BPs
 (25.17)

(\$302.78) (\$1,040.03)

(\$885.88)

(\$1,610.18) (\$1,303.67) (\$3,262.39) (\$1,582.43) (\$3,845.10)

Staff Analysis of additional cost for Execution Type = Treasury Internal Contract.

Assumes External Contract and Treasury External Contract is the benchmark.

	Q3 '05	Q4 '05	Q1 '06	Q2 '06	Q3 '06	Q4 '06	Q1 '07	Q2 '07	Q3 '07	Q4 '07	Q1 '08	Q2 '08	Q3 '08	Q4 '08	Q1 '09	Q2 '09
TREASURY INTERNAL																
CONTRACT	-24.73	-9.64	-7.66	-29.37	-11.94	-16.61	-10.05	-14.69	-18.96	-20.19	-24.42	-21.14	-20.96	-33.26	-37.83	-38.46
EXTERNAL CONTRACT	-2.82	3.83	1.22	-1.34	-2.16	-1.48	-0.27	-1.17	-1.62	-3.03	-5.5	-5.98	-0.5	-0.79	5.59	-3.75
TREASURY EXTERNAL																
CONTRACT	-4.83	-6.6	-5.53	-3.2	-2.64	-3.39	-4.04	-1.48	-5.01	-2.54	-3.9	-5.53	-6.44	7.87	-11.18	-4.34
Bchmk against External Contra	act															
Net cost/benefit (bps)	21.91	13.47	8.88	28.03	9.78	15.13	9.78	13.52	17.34	17.16	18.92	15.16	20.46	32.47	43.42	34.71
Total Cost/Benefit (000's)	(\$689.77)	(\$122.73)	(\$103.31)	(\$500.91)	(\$120.39)	(\$99.20)	(\$127.21)	(\$234.63)	(\$376.36)	(\$1,011.15)	(\$816.80)	(\$1,563.76)	(\$1,836.99)	(\$2,575.48)	(\$2,578.20)	(\$3,911.59)
Bchmk against Treasury Exter	nal Contract															
Net cost/benefit (bps)	19.90	3.04	2.13	26.17	9.30	13.22	6.01	13.21	13.95	17.65	20.52	15.61	14.52	41.13	26.65	34.12

(\$78.17)

(\$229.25)

SBA Staff Notes:

Total Cost/Benefit (000's)

Treasury Internal Contract (T): Standing Instruction Trade. Input into CMS (Custody Management System?) and then sent to PGH Treasury (Pittsburgh) for execution

(\$467.67)

(\$114.48)

(\$86.68)

External Contract (E): Executed by a 3rd party.

Treasury External Contract (X): An FX placed directly with the PGH desk

Internal FX Contract (I): This is an internal FX sent to the sub-custodian for execution

(\$626.49)

London Contract (L): An FX placed directly with the London Desk

London Treasury Contract (N): Standing Instruction Trade. Input into CMS and then sent to the London Treasury for execution

(\$24.78)

(\$27.70)

C: This is a **Standing Instruction Trade**. Input into CMS and sent to CIBC Treasury for execution.

Additional Cost of Treasury Internal Contract vs Stated Benchmark

	Additional Cost						
Benchmark	Bps	USD (000s)					
Inst'l Peer Universe Mkt Impact	-27.11	(26,225.00)					
		(-,,					
External Contract	-24.61	(23,810.57)					
Treasury External Contract	-22.99	(22,243.20)					